

## Abstract

The present invention proposes a distance sensor having a sensor for a motor vehicle in which means are provided by which misalignment angles and trajectory curvatures can be compensated for during travel not only on a straight road but also along curves. In a sensor (2) mounted displaced from the center line of the vehicle, an angle ( $\alpha_{\text{sensor}}$ ) is measured which cuts the projected center line of the motor vehicle (5) at the target object, a vehicle (6) driving ahead. By the additional use of a yaw rate sensor (3), curve curvatures of the road are also compensated for, so that angle and distance measurement can also be made along curves.

(Figure 1)